(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) V Semester (Civil Engg.)

w.e.f. July 2017-18 batch

			um Marks	Allotted			Contact Hours Per Week						
S.No.	Subject	Category		1	Theory		Prac	tical	T		I	F 7 1 6	7
5.140.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	BT521	HSMC	Engineering Economics and Management	70	20	10		-	100	3	-	-	3
2	CE502	OEC	Open Elective - I	70	20	10	19-11-11		100	3	1	-	4
3	CE503	PCC	Structural Analysis-I	70	20	10	30	20	150	3	- 1	2	4
4	CE504	PCC	Geotechnical Engineering-II	70	20	10	30	20	150	3	881,2-311	2	4
5	CE505	PCC	Structural Design-I (RCC)	70	20	10	30	20	150	3	-	2	4
- 6	CE407	DLC/PI	Industrial Training/Internship Evaluation	-			60	40	100			2	1
	High		Total	350	100	50	150	100	750	15	1	8	20
7	CE508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)					-	- 1-		- 1		4
NSS/N	CC/Swac	hhata Abhi	iyan/Rural Outreach	Qualifier									
			ours or Minor Specialization	Permitted (Minor Sp	to opt for m	aximum two	o additional	courses in	subject cod	le CE508	for the awa	rd of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	Li	st of Open Elective Course - I
S.No.	Subject Code	Subject Name
1	CE502A	Elements of Environmental Engineering
2	CE502B	Water Resource Conservation
3	CE502C	Water Resource Engineering

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

5.2

Principal Jabalpur Eng**iacering** College Jabalpur - **482 011** (M.P.)

JEC, Jabalpur (M.P.

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) V Semester (Computer Science & Engg.)

w.e.f. July 2017-18 batch

			Maximum Marks Allotted Contact Hours P		t Hours P	er Week							
c	Subject	Category	1 1 2 - 1 2		Theory		Prac	tical		1000	promise in	(1) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	BT511	HSMC	Professional Ethics	70	20	10	- 1	-	100	3	-	-	3
2	CS502	OEC	Open Elective - I	70	20	10		-	100	3	1	-	4
3	CS503	PCC	Database Management Systems	70	20	10	30	20	150	3		2	4
4	CS504	PCC	Computer Graphics & Multimedia	70	20	10	30	20	150	3	1	2	4
5	CS505	PCC	Artificial Intelligence	70	20	10	30	20	150	3		2	4
6	CS407	DLC/PI	Industrial Training/Internship Evaluation				60	40	100			2	1
			Total	350	100	50	150	100	750	15	1	8	20
7	CS508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)								-		4
VSS/N	CC/Swac	hhata Abhi	yan/Rural Outreach	Qualifier		STUDY TO THE STATE							
Additio	nal Cours	se for Hono	ours or Minor Specialization	Permitted (Minor Sp	to opt for m	aximum two	o additional	courses in	subject coo	de CS508	for the aw	ard of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	List	of Open Elective Course - I
S.No.	Subject Code	Subject Name
1	CS502A	Virtual Reality
2	CS502B	Theory of Computation
3	CS502C	Advance Computer Architecture

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

Academic FC, Jabalpur (M.P.

Principal
Jabalpur Engineering Colleg.
Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) V Semester (Electrical Engg.)

w.e.f. July 2017-18 batch

					Maxim	um Marks	Allotted			Contac	t Hours Per	Week	
S.No.	Subject	Category			Theory		Prac	tical	T				T . 1
3.110.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	Р	Total Credits
1	BT521	HSMC	Engineering Economics and Management	70	20	10	•		100	3	-	-	3
2	EE502	OEC	Open Elective - I	70	20	10	-		100	3	1	-	4
3	EE503	PCC	Electrical Machine - II	70	20	10	30	20	150	3		2	4
4	EE504	PCC	Power Electronics	70	20	10	30	20	150	3	a conglum a	2	4
5	EE505	PCC	Control System	70	20	10	30	20	150	3	- 2	2	4
6	EE407	DLC/PI	Industrial Training/Internship Evaluation	16,154.6			60	40	100	incomercial and the second	-	2	1
			Total	350	100	50	150	100	750	15	i	8	20
7	EE508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)										4
SS/N	CC/Swac	hhata Abhi	yan/Rural Outreach	Qualifier		100 A 000 A							
		41.75012.0070	ours or Minor Specialization	(Minor Sp	to opt for ma	aximum two	additional	courses in	subject coc	le EE508	for the award	of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	L	ist of Open Elective Course - I
S.No.	Subject Code	Subject Name
1	EE502A	Power System-II
2	EE502B	Electrical Energy Conversation & Auditing
3	EE502C	Computational Electromagnetic

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

I hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

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Jabalpur Engineering Colleg.

Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) V Semester (E&TC Engg.)

w.e.f. July 2017-18 batch

				Maximum Marks Allotted Contact Hours		t Hours Par Wook	T					
S.No.	Subject Category Theory Practical Code Code Subject Name		Contac	Hours Fer Week	1							
5.110.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	ТР	Total Credit
1	BT511	HSMC	Professional Ethics	70	20	10			100	3		3
2	EC502	OEC	Open Elective - I	70	20	10			100	3	1 -	4
3	EC503	PCC	Digital Communication	70	20	10	30	20	150	3	_ 2	-
4	EC504	PCC	Communication Network & Transmissson Line	70	20	10	30	20	150	3	- 2	4
5	EC505	PCC	Microprocessor & Microcontrollers	70	20	10	30	20	150	3	- 2	4
6	EC407	DLC/PI	Industrial Training/Internship Evaluation		-		60	40	100	-	- 2	1
			Total	350	100	50	150	100	750	15	1 8	20
7	EC508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	•		-		-	-			4
SS/N	CC/Swacl	hhata Abhi	yan/Rural Outreach	Qualifier	1100 per se se							
		A CAMPAGE PAR	ours or Minor Specialization	Permitted (Minor Sp	to opt for ma	aximum two	additional	courses in	subject cod	le EC508	for the award of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	List	of Open Elective Course - I
S.No.	Subject Code	Subject Name
1	EC502A	Data Structure
2	EC502B	Industrial Electronics
3	EC502C	Bio-Medical Instrumentation

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
OLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

I hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

JEC, Jabalpur (M.P.)

2-2-

Principal Jabalpur Engineering College Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) V Semester (Industrial & Production Engg.)

w.e.f. July 2017-18 batch

					Maxim	um Marks	Allotted			Contact Hours Per Week		
	Subject	Category			Theory		Prac	tical	Total Marks			Total
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work		L	ТР	Credits
1	BT521	HSMC	Engineering Economics and Management	70	20	10			100	3		3
2	IP502	OEC	Open Elective - I	70	20	10			100	3	1 -	4
3	IP503	PCC	Tool Engg. & Machine Tools	70	20	10	30	20	150	3	- 2	4
4	IP504	PCC	Metal Cutting Science	70	20	10	30	20	150	3	- 2	4
5	IP505	PCC	Work Study & Ergonomics	70	20	10	30	20	150	3	- 2	4
6	IP407	DLC/PI	Industrial Training/Internship Evaluation		dealeste.		60	40	100		- 2	1
			Total	350	100	50	150	100	750	15	1 8	20
7	IP508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)			-		-	-	-	-	4
NSS/N	CC/Swac	hhata Abh	iyan/Rural Outreach	Qualifier							4	
Additic	onal Cour	se for Hone	ours or Minor Specialization	A CONTRACTOR OF THE PARTY OF TH	to opt for m		o additional	courses in	subject co	de IP508	for the award of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	List of Open Elective Course - I								
S.No.	Subject Code	Subject Name							
1	IP502A	Metrology & Quality Control							
2	IP502B	Sequencing & Scheduling							
3	IP502C	Productivity Management							

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

Academic (M.P.)

Principal
Jabalpur Engineering College
Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) V Semester (Information Technology)

w.e.f. July 2017-18 batch

					Maximum Marks Allotted					Contact Hours Per Week			
	Subject	Category			Theory			Practical				- 1	Total
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Credits
1	BT521	HSMC	Engineering Economics and Management	70	20	10			100	3		- 1	3
2	IT502	OEC	Open Elective - I	70	20	10	100		100	3	1	-	4
3	IT503	PCC	Computer Network	70	20	10	30	20	150	3		2	4
4	IT504	PCC	Operating System	70	20	10	30	20	150	3	-	2	4
5	IT505	PCC	Data Base Management System	70	20	10	30	20	150	3	-	2	4
6	IT407	DLC/PI	Industrial Training/Internship Evaluation			Property for	60	40	100	-	- 120	2	I
			Total	350	100	50	150	100	750	15	1	8	20
7	IT508		Self-Learning Presentation (SWAYAM/NPTEL/MOOC)		Control of the								4
NSS/N	CC/Swac	hhata Abhi	iyan/Rural Outreach	Qualifier						10.000			
Additio	onal Cour	se for Hono	ours or Minor Specialization	[140] - 네 아이는 아니라 그리고 있다.	to opt for m		o additional	courses in	subject co	de IT508	for the awa	ard of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

	Lis	t of Open Elective Course - I
S.No.	Subject Code	Subject Name
1	IT502A	Automata and Compiler Design
2	IT502B	Computer Graphics and Multimedia
3	IT502C	Management Information System

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

I hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

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Jabalpur Engineering Cones Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B. Tech.) V Semester (Mechanical Engg.)

w.e.f. July 2017-18 batch

					Maxim	um Marks	Allotted			Contact Hours Per Week			
	C . L	C-4			Theory Practical			tical	Total	To physical and	fili an s		Total
S.No.	Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	ME501	HSMC	Entrepreneurship and Management Concepts	70	20	10	-		100	3	56 She 11 12	-	3
2	ME502	OEC	Open Elective - I	70	20	10		-	100	3	1	-	4
3	ME503	PCC	I.C. Engines	70	20	10	30	20	150	3		2	4
4	ME504	PCC	Turbo Machines	70	20	10	30	20	150	3		2	4
5	ME505	PCC	Dynamics of Machines	70	20	10	30	20	150	3	-	2	4
6	ME407	DLC/PI	Industrial Training/Internship Evaluation			•	60	40	100	-	-	2	1
			Total	350	100	50	150	100	750	15	1	8	20
7	ME508	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)			-					-		4
NSS/N	ICC/Swa	hhata Abh	iyan/Rural Outreach	Qualifier									
Additi	Additional Course for Honours or Minor Specialization			Estimate in the contract of th	l to opt for m		vo additional	courses in	subject co	de ME508	3 for the aw	vard of Ho	nours

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

Li	st of Open Elective Course - I
Subject Code	Subject Name
ME502A	Instrumentation Measurement & Control
ME502B	Mechatronics
ME502C	TQM and SQC
	Subject Code ME502A ME502B

HSMC	Humanities Science and Managerial Course
OEC	Open Elective Course (Interdisciplinary)
PCC	Professional/Programme Core Course
DLC/PI	Digital Learning Courses/Project and Internship

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

Adademic JEC, Jabalpur (M.P.) Jabalpur Engineering College Jabalpur - 482 011 (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) V Semester (Artificial Intelligence & Data Science)

							即位於差別						E SERVE OF
					Maxim	um Marks Al	lotted			Contact Hours Per Week			
S.No.	Subject	Category	0.11	Theory			Practical		Total		T		Total
S.IV0.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	BT511	HSMC	Professional Ethics	70	20	10		-	100	3	+-+		3
2	A1502	OEC	Elective I	70	20	10	-	<-	100	3	1	_	4
4	AI503	PCC	Deep Learning	70	20	10	30	20	150	3	-	2	4
3	AI504	PCC	Data Science	70	20	10	30	20	150	3	-	2	4
2	A1505	PCC	Digital & Wireless Communication	70	20	10	30	20	150	3	-	2	4
6	AI407	DLC/PI	Industrial Training (Viva)	-	-	-	60	40	100	-	-	2	1
			Total	350	100	50	150	100	750	15	1	8	20
7	AI508	DLC	SWAYAM/NPTEL/MOOC	-	-	-	-	-	-	-	-	-	8
NSS/N	ICC/Swac	hhata Abhiy	an/Rural Outreach	Qualifie	r/-				l		-		T.
	4		urs or Minor Specialization	Honour	Degree (Mi	maximum three nor Specializa	tion)						1

Note: Departmental BOS will decide list of three elective subjects for each PEC/OEC (Professional /Open Elective Courses). Industrial training viva shall take place in V Sem. which students have already done in IV Sem.

	Open Elective Courses I							
S.No.	Subject Code	Subject Name						
1	AI502A	Probability and Random Process						
2	AI502B	Theory Of Computation						
3	AI502C	Information Theory & Coding	-					

HSMC	Humanities Sciece and Managerial Courses	1
OEC	Open Elective Course	
PCC	Professional/Programme Core Course	1
DLC/PI	Digital Learning Courses/Project and Internship	187

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning / Project Internship Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses MOOC subjects shall be taken with permission of HOD/Coordinator

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Dean (Academics)

Jabalpur Engineering College

Jabalpur (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) V Semester Mechatronics Engineering

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted						Contact Hours Per Week			
				Theory			Practical		Total				Total
			Subject Name		Mid Sem. Exam.	Quiz/ Assign ment	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	BT511	HSMC	Professional Ethics	70	20	10	-	-	100	3	-	-	3
2	MT502	OEC	Elective I	70	20	10	-	-	100	3	1	-	4
3	MT503	PCC	Thermodynamics & Applications	70	20	10	30	20	150	3	-	2	4
4	MT504	PCC	Smart & Embedded Instrumentation	70	20	10	30	20	150	3		2	4
- 5	MT505	PCC	Machine Design	70	20	10	30	20	150	3	-	2	4
6	MT407	DLC/PI	Industrial Training	-	-	-	60	40	100	-	-	2	1
		-	Total	350	100	50	150	100	750	15	1	8	20
7	MT508	DLC	SWAYAM/NPTEL/MOOCs	1-1	-	-	-	-	-	-	-	-	8
NSS/NCC/Swachhata Abhiyan/Rural Outreach					Qualifier / -								
Additio	onal Course	e for Honou	rs or Minor Specialization	Permitte Honour	ed to opt	for max	imum thre	ee addition	al courses	in subjec	t code MT	508 for th	e award o

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC as well for OEC.

List of Open Elective Course - I					
S.No.	Subject Code	Subject Name			
1	MT502 A	Discrete Signal Processing			
2	MT502 B	Finite Element Analysis			
3	MT502 C	Industry 4.0 & IIOT			

HSMC	Humanities Science and Managerial Course		
OEC	Open Elective Course (Interdisciplinary)		
PCC	Professional/Programme Core Course		
DLC/PI	Digital Learning Courses/Project and Internship		

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses

MOOC subjects shall be taken with permission of HOD/Coordinator

Dean (Academics)

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